

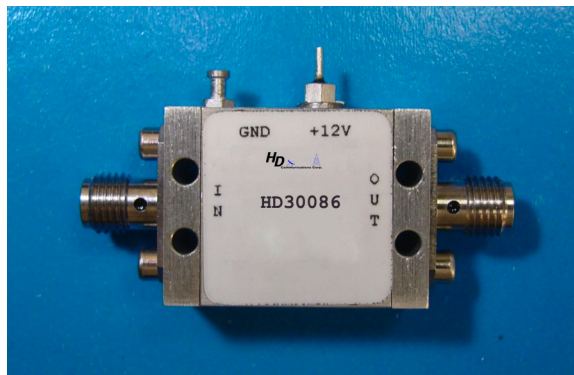
HD30086

400 - 2500 MHz Low Noise Amplifier

Features

- Frequency Range:
400 – 2500MHz
- Gain: 17dB
- P_{1dB} : +22dBm
- IP3: +34dBm
- Noise Figure: 1dB (typ.)
- DC Power: 12V @ 50mA
- SMA-female connectors

range of 400MHz to 2500MHz.



Description

HD30086 is a high performance Microwave Low Noise (& Driver) Amplifier, with standard frequency

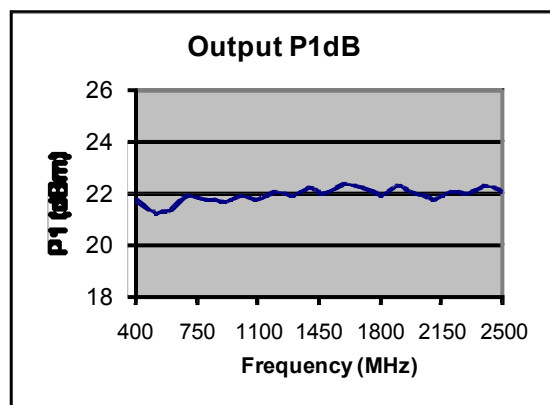
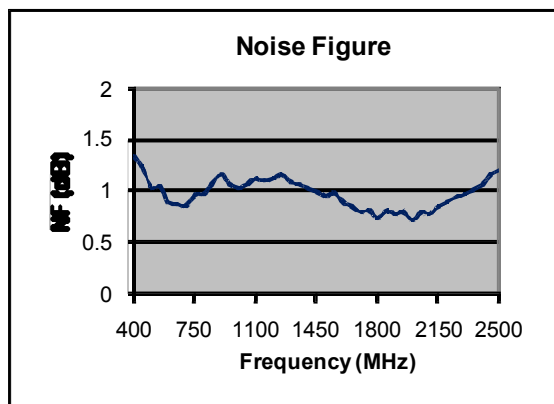
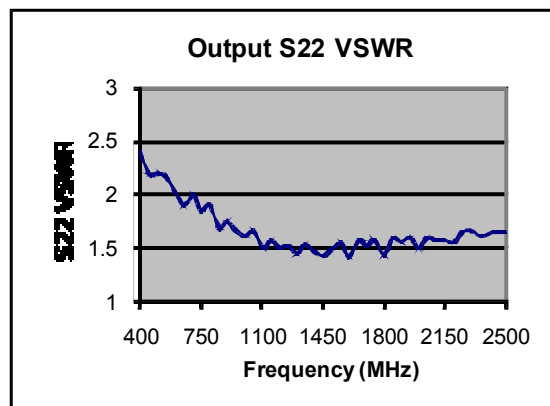
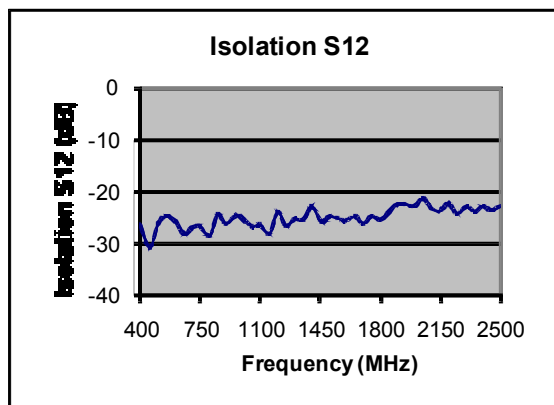
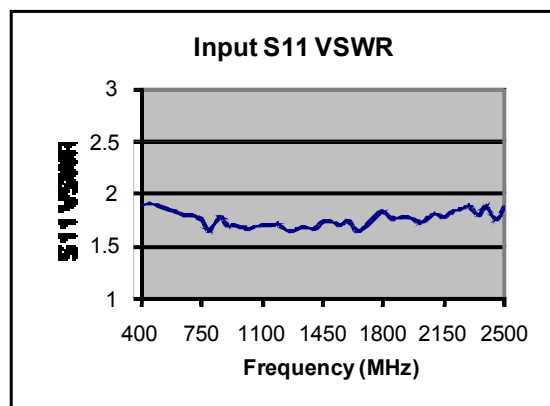
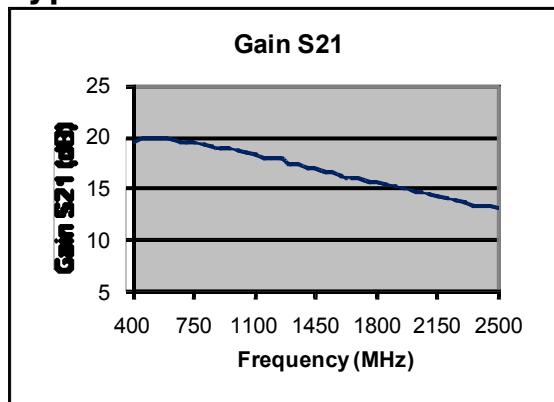
Electrical Specifications @+25 °C, $Z_{in}=Z_{out}=50\text{ Ohm}$, $V_{supply} = +12\text{VDC}$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	400		2500
Gain (S21) f = 400MHz	dB		19	
f = 1450MHz	dB		17	
f = 2500MHz	dB		13	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P_{1dB}	dBm	+20	+22	
Saturated Output Power P_{Sat}	dBm		+23	
Output Third Order Intercept IP3	dBm	+30	+34	
Noise Figure @1450MHz	dB		1.0	1.2
Reverse Isolation (S12) @1450MHz	dB		-25	
VSWR-Input (S11)	ratio:1	1.9@400MHz	1.8@1450MHz	1.9@2500MHz
VSWR-Output (S22)	(unitless)	2.4@400MHz	1.5@1450MHz	1.7@2500MHz
DC Power Supply - voltage	V	9	12	15
DC Power Supply - current	mA		50	95
Operating Temperature	°C	-40		+85
Size (RF/DC feedthru's excluded)	Inch	1.00 (L) x 0.75 (W) x 0.45 (H)		
Weight	Oz	0.6 (17 grams)		

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Typical Performance @+25 °C



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